Amitabha Bandyopadhyay

List of Publications by Year
in descending order

35 papers	2,533 citations	331670 21 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	3704 citing authors

#	Article	IF	Citations
1	BMP2 activity, although dispensable for bone formation, is required for the initiation of fracture healing. Nature Genetics, 2006, 38, 1424-1429.	21.4	708
2	Genetic Analysis of the Roles of BMP2, BMP4, and BMP7 in Limb Patterning and Skeletogenesis. PLoS Genetics, 2006, 2, e216.	3.5	532
3	The Hedgehog-inducible ubiquitin ligase subunit WSB-1 modulates thyroid hormone activation and PTHrP secretion in the developing growth plate. Nature Cell Biology, 2005, 7, 698-705.	10.3	203
4	Precise spatial restriction of BMP signaling is essential for articular cartilage differentiation. Development (Cambridge), 2015, 142, 1169-1179.	2.5	115
5	Role of the Tsc1-Tsc2 Complex in Signaling and Transport Across the Cell Membrane in the Fission Yeast <i>Schizosaccharomyces pombe</i>. Genetics, 2002, 161, 1053-1063.	2.9	96
6	BMP4 Is Dispensable for Skeletogenesis and Fracture-Healing in the Limb. Journal of Bone and Joint Surgery - Series A, 2008, 90, 14-18.	3.0	86
7	BMP signaling in development and diseases: A pharmacological perspective. Biochemical Pharmacology, 2013, 85, 857-864.	4.4	86
8	Mammalian Translation Initiation Factor eIF1 Functions with eIF1A and eIF3 in the Formation of a Stable 40 S Preinitiation Complex. Journal of Biological Chemistry, 2003, 278, 6580-6587.	3.4	78
9	Elucidating role of silk-gelatin bioink to recapitulate articular cartilage differentiation in 3D bioprinted constructs. Bioprinting, 2017, 7, 1-13.	5.8	68
10	Identification of unique molecular subdomains in the perichondrium and periosteum and their role in regulating gene expression in the underlying chondrocytes. Developmental Biology, 2008, 321, 162-174.	2.0	65
11	Fission Yeast Int6 Is Not Essential for Global Translation Initiation, but Deletion of<i>int6</i>⁺Causes Hypersensitivity to Caffeine and Affects Spore Formation. Molecular Biology of the Cell, 2000, 11, 4005-4018.	2.1	54
12	Characterization of a novel ectodermal signaling center regulating Tbx2 and Shh in the vertebrate limb. Developmental Biology, 2007, 304, 9-21.	2.0	50
13	Moe1 and spInt6, the Fission Yeast Homologues of Mammalian Translation Initiation Factor 3 Subunits p66 (eIF3d) and p48 (eIF3e), Respectively, Are Required for Stable Association of eIF3 Subunits. Journal of Biological Chemistry, 2002, 277, 2360-2367.	3.4	39
14	Developmental Biology-Inspired Strategies To Engineer 3D Bioprinted Bone Construct. ACS Biomaterials Science and Engineering, 2018, 4, 3545-3560.	5.2	33
15	Cloning and characterization of the p42 subunit of mammalian translation initiation factor 3 (eIF3): demonstration that eIF3 interacts with eIF5 in mammalian cells. Nucleic Acids Research, 1999, 27, 1331-1337.	14.5	32
16	Precise spatial restriction of BMP signaling in developing joints is perturbed upon loss of embryo movement. Development (Cambridge), 2018, 145, .	2.5	31
17	BRITER: A BMP Responsive Osteoblast Reporter Cell Line. PLoS ONE, 2012, 7, e37134.	2.5	29
18	Microarray meta-analysis identifies evolutionarily conserved BMP signaling targets in developing long bones. Developmental Biology, 2014, 389, 192-207.	2.0	26

#	Article	IF	Citations
19	BMP signaling is required for adult skeletal homeostasis and mediates bone anabolic action of parathyroid hormone. Bone, 2016, 92, 132-144.	2.9	25
20	Phosphorylation of mammalian translation initiation factor 5 (eIF5) in vitro and in vivo. Nucleic Acids Research, 2002, 30, 1154-1162.	14.5	23
21	Casein kinase II phosphorylates translation initiation factor 5 (eIF5) inSaccharomyces cerevisiae. Yeast, 2003, 20, 97-108.	1.7	22
22	Fission yeast translation initiation factor 3 subunit eIF3h is not essential for global translation initiation, but deletion of <i>eif</i>3<i>h</i>⁺ affects spore formation. Yeast, 2008, 25, 809-823.	1.7	20
23	Characterization of BMP signaling dependent osteogenesis using a BMP depletable avianized bone marrow stromal cell line (TVA-BMSC). Bone, 2016, 91, 39-52.	2.9	17
24	A comprehensive mRNA expression analysis of developing chicken articular cartilage. Gene Expression Patterns, 2016, 20, 22-31.	0.8	15
25	NFIA and GATA3, critical regulators of embryonic articular cartilage differentiation. Development (Cambridge), 2018, 145, .	2.5	15
26	BMP signaling-driven osteogenesis is critically dependent on Prdx-1 expression-mediated maintenance of chondrocyte prehypetrophy. Free Radical Biology and Medicine, 2018, 118, 1-12.	2.9	15
27	Self-Assembling Nano-Globular Peptide from Human Lactoferrin Acts as a Systemic Enhancer of Bone Regeneration: A Novel Peptide for Orthopedic Application. ACS Applied Materials & Interfaces, 2021, 13, 17300-17315.	8.0	12
28	Investigating the mechanistic basis of biomechanical input controlling skeletal development: exploring the interplay with Wnt signalling at the joint. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170329.	4.0	10
29	Spatio-Temporally Restricted Expression of Cell Adhesion Molecules during Chicken Embryonic Development. PLoS ONE, 2014, 9, e96837.	2.5	8
30	Simultaneous differentiation of articular and transient cartilage: WNT-BMP interplay and its therapeutic implication. International Journal of Developmental Biology, 2020, 64, 203-211.	0.6	7
31	A Genome-Wide Screen Indicates Correlation between Differentiation and Expression of Metabolism Related Genes. PLoS ONE, 2013, 8, e63670.	2.5	5
32	Re-examining osteoarthritis therapy from a developmental biologistâ€™s perspective. Biochemical Pharmacology, 2019, 165, 17-23.	4.4	5
33	Etiology and Treatment of Osteoarthritis: A Developmental Biology Perspective. , 2017, , 17-42.		2
34	Musculoskeletal Development, Maintenance and Regeneration: Part One. Developmental Dynamics, 2021, 250, 6-7.	1.8	0
35	Musculoskeletal development, maintenance and regeneration: Part two. Developmental Dynamics, 2021, 250, 300-301.	1.8	0